

FIG. 1

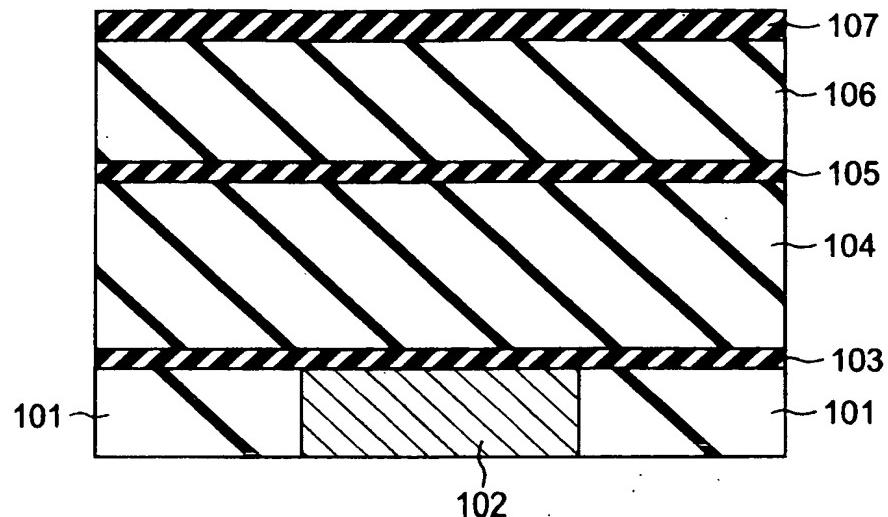


FIG. 2

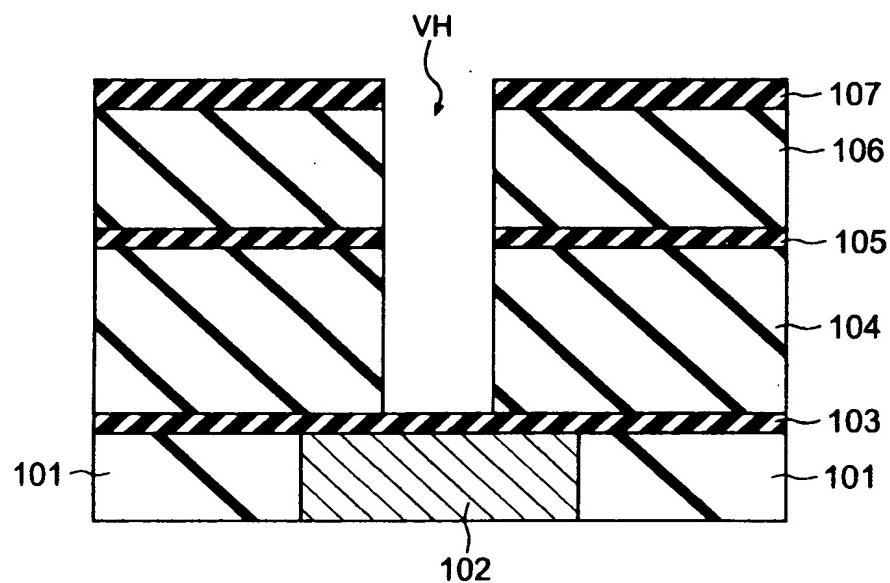


FIG. 3

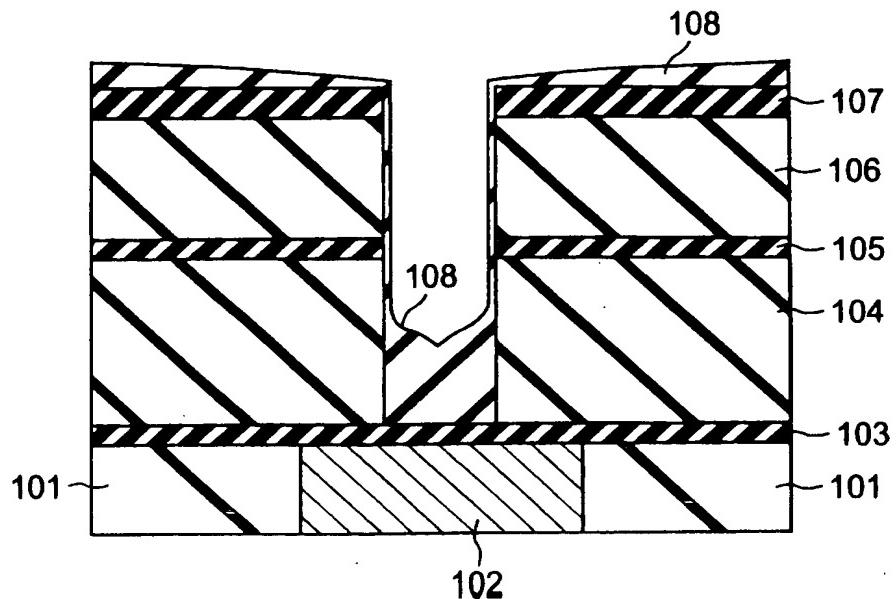


FIG. 4

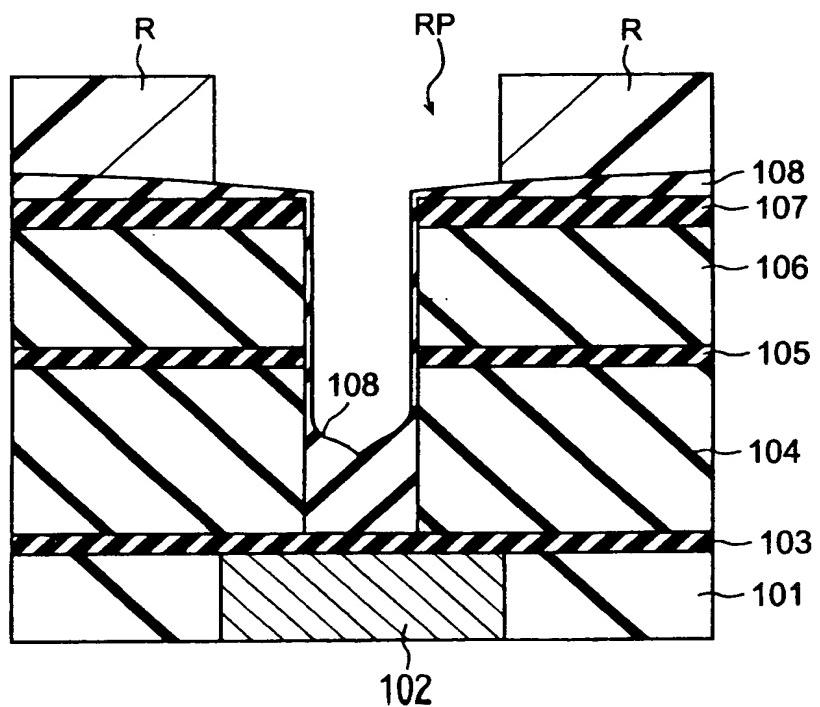


FIG. 5

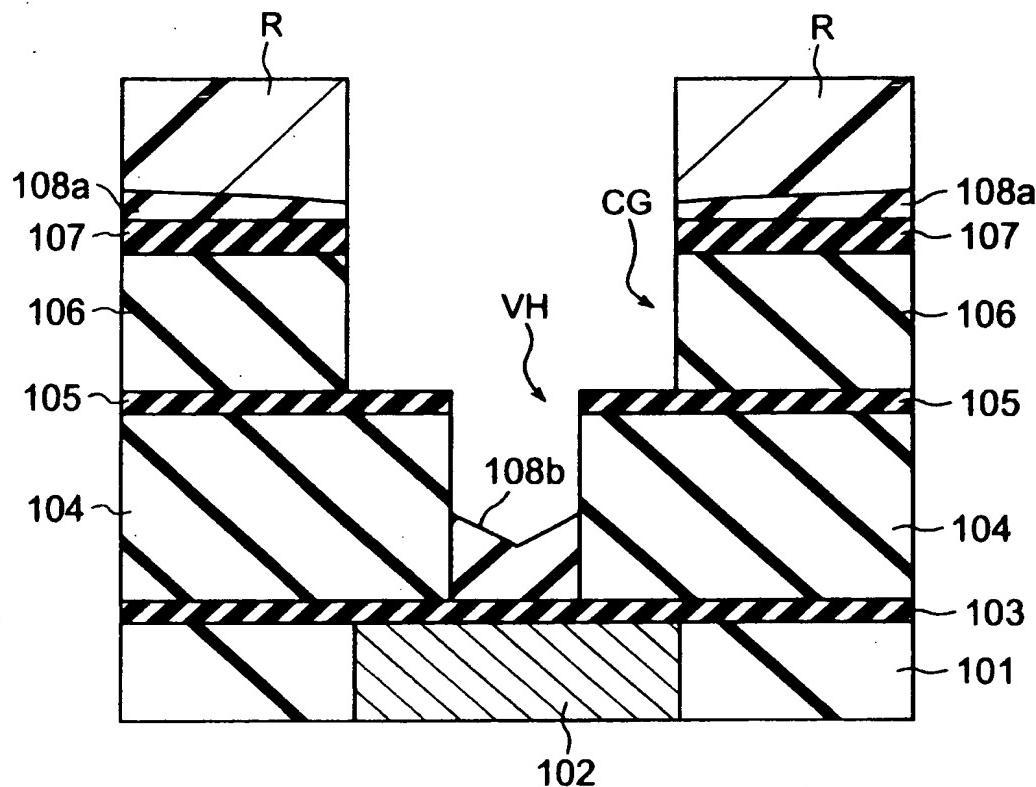


FIG. 6

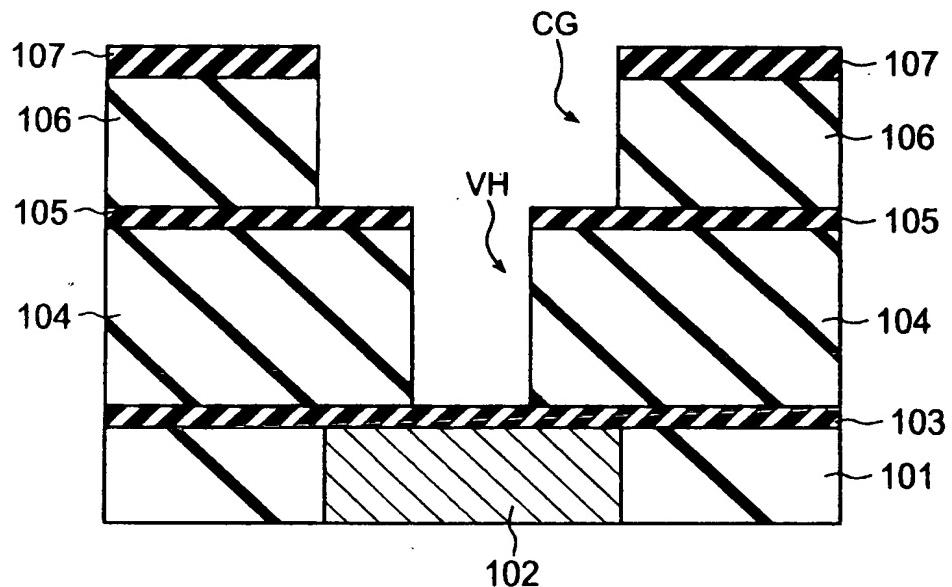


FIG. 7

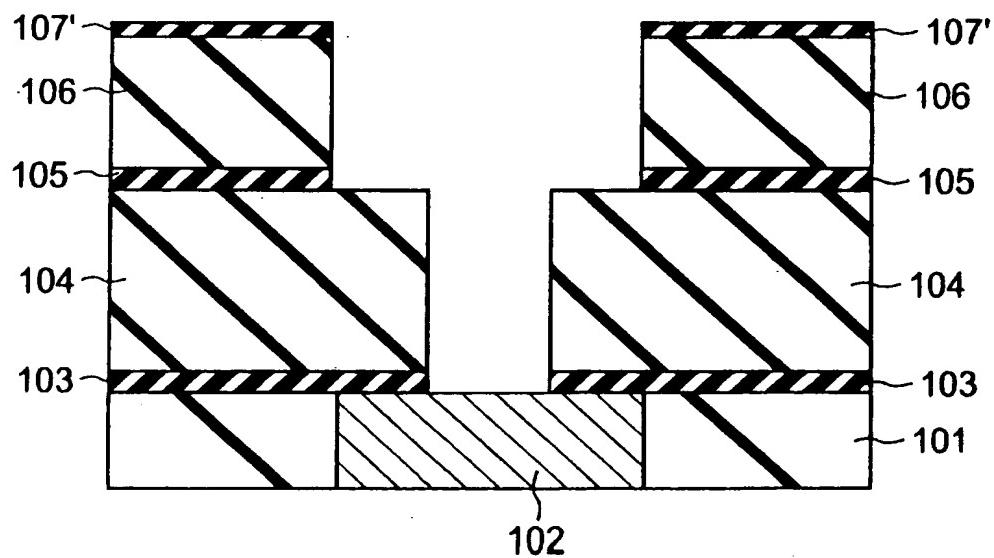


FIG. 8

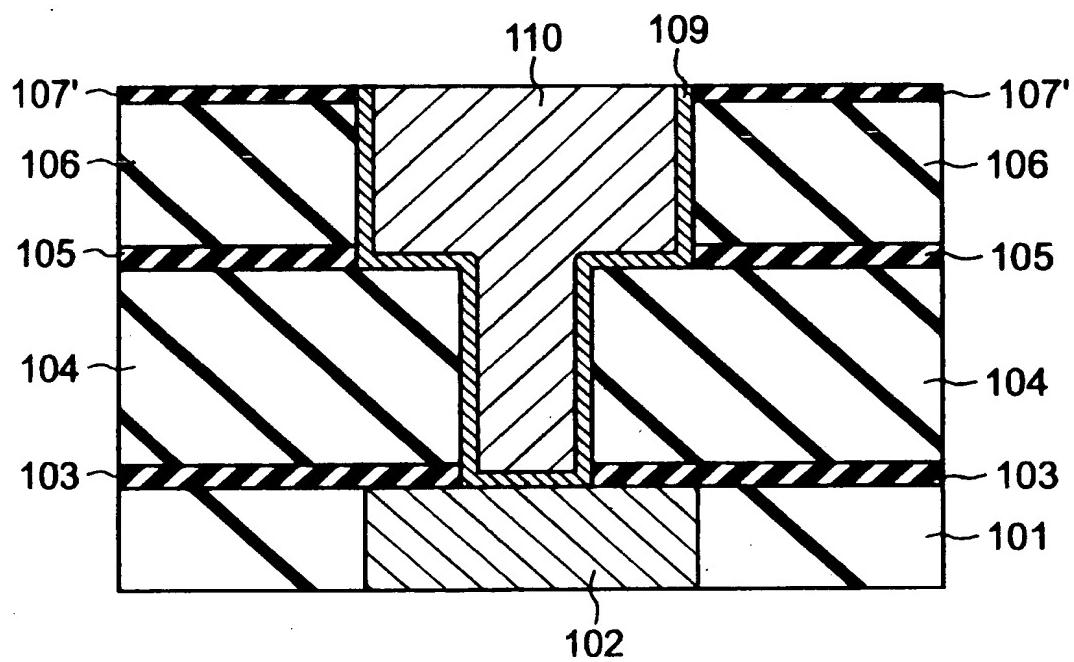


FIG. 9

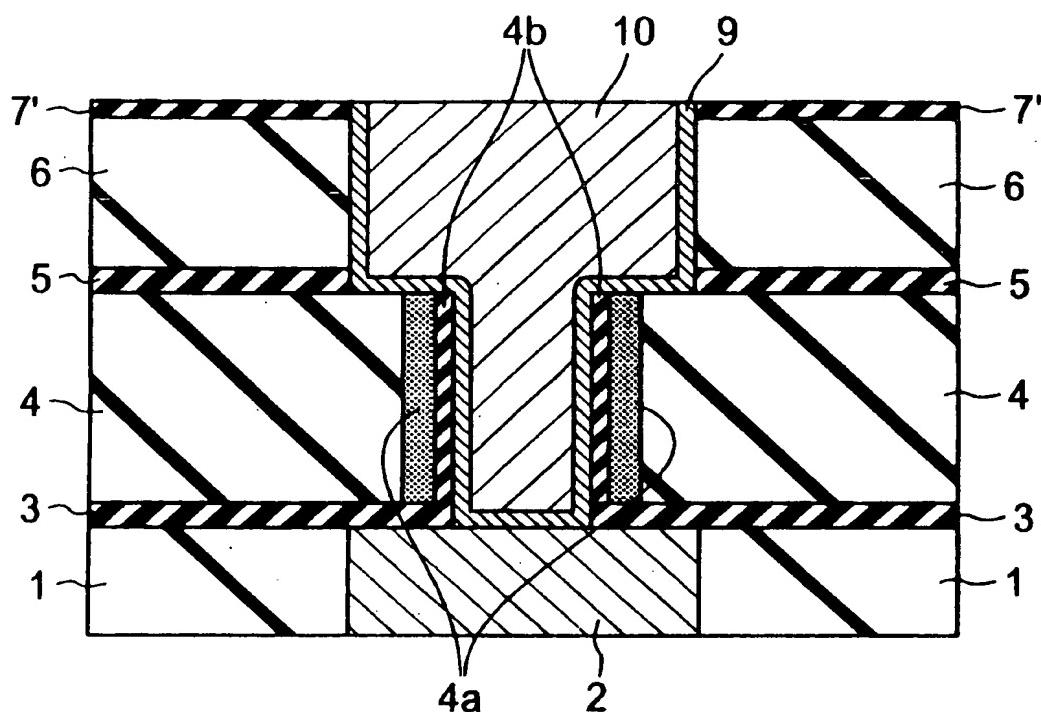


FIG. 10

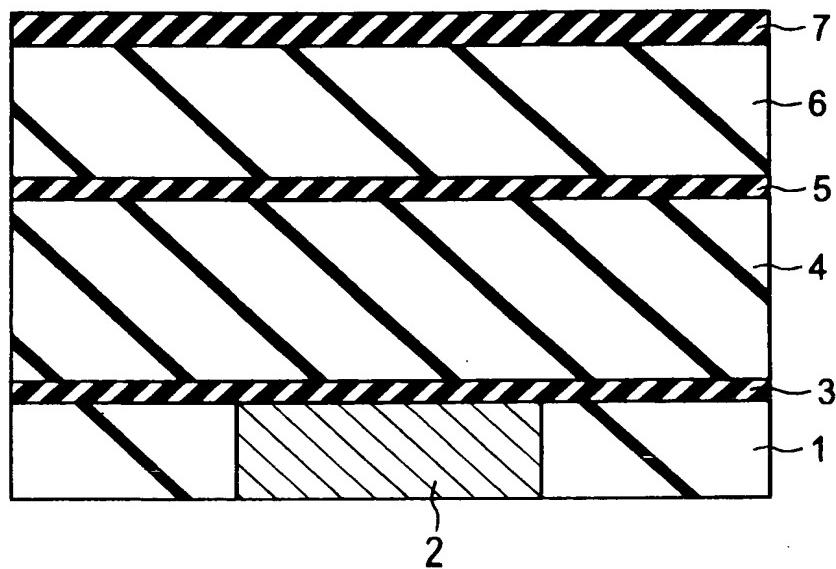


FIG. 11

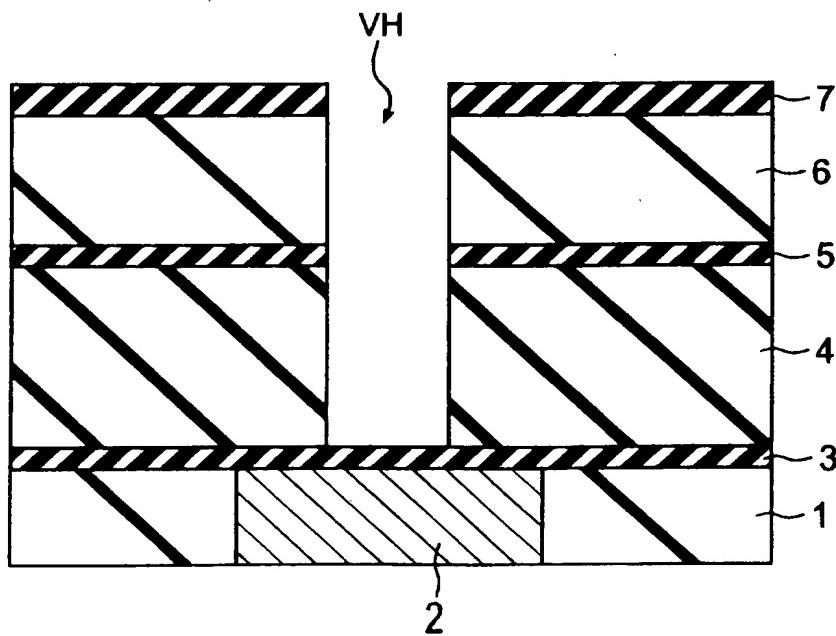


FIG. 12

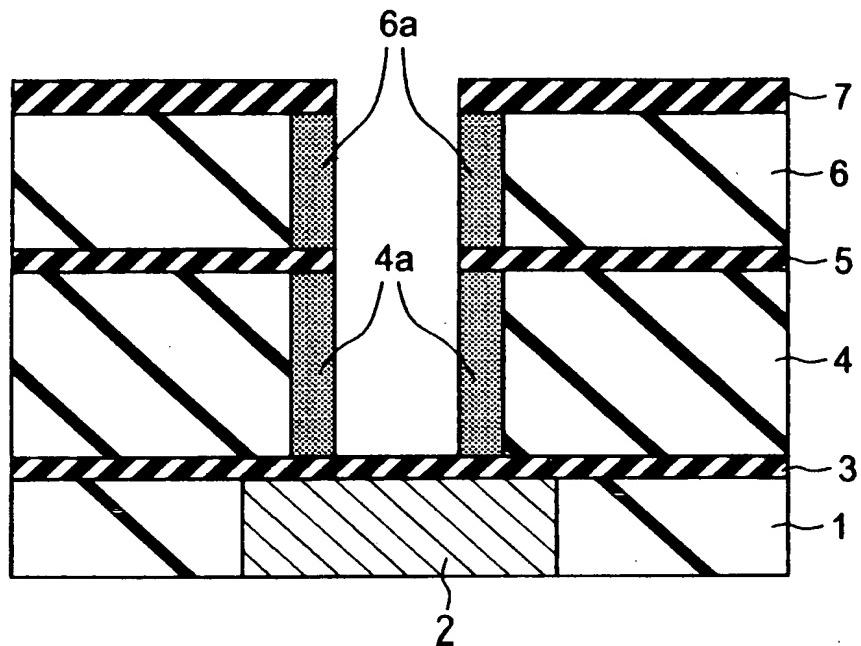
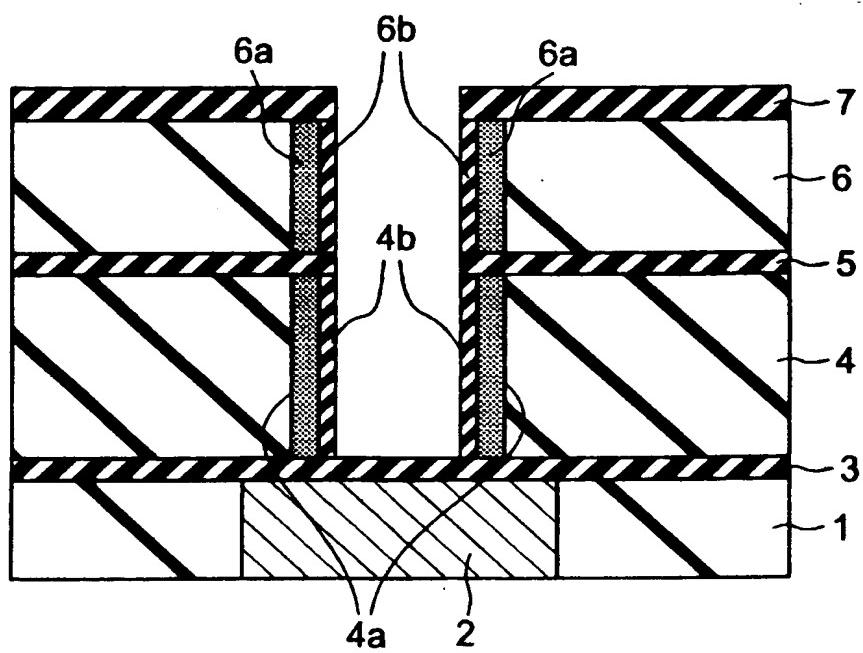


FIG. 13



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FIG. 14

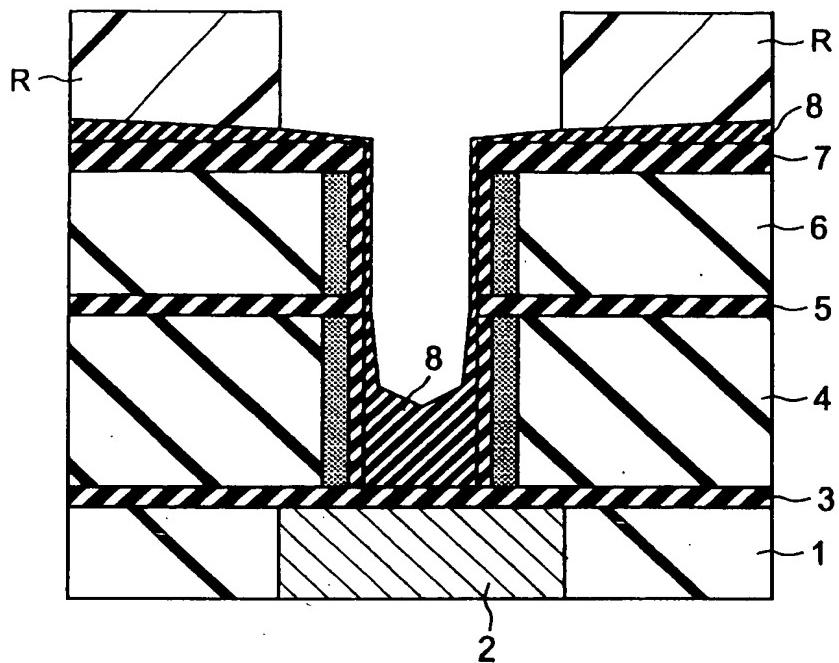


FIG. 15

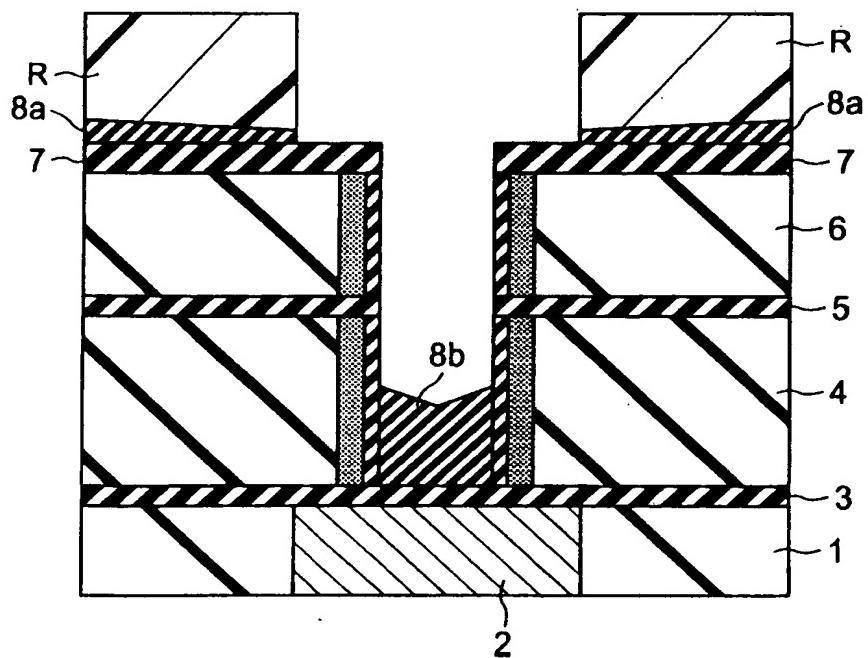


FIG. 16

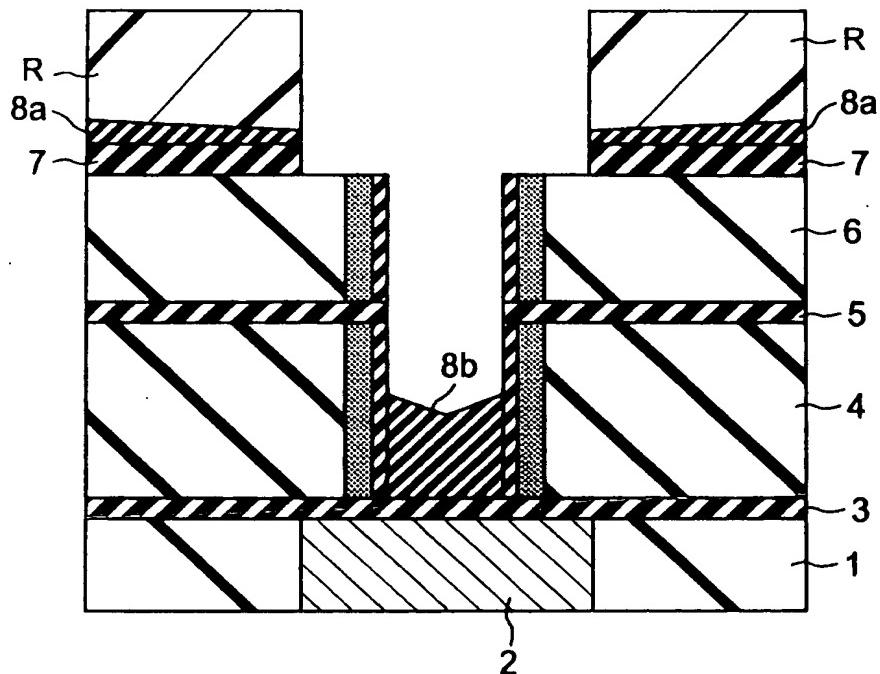


FIG. 17

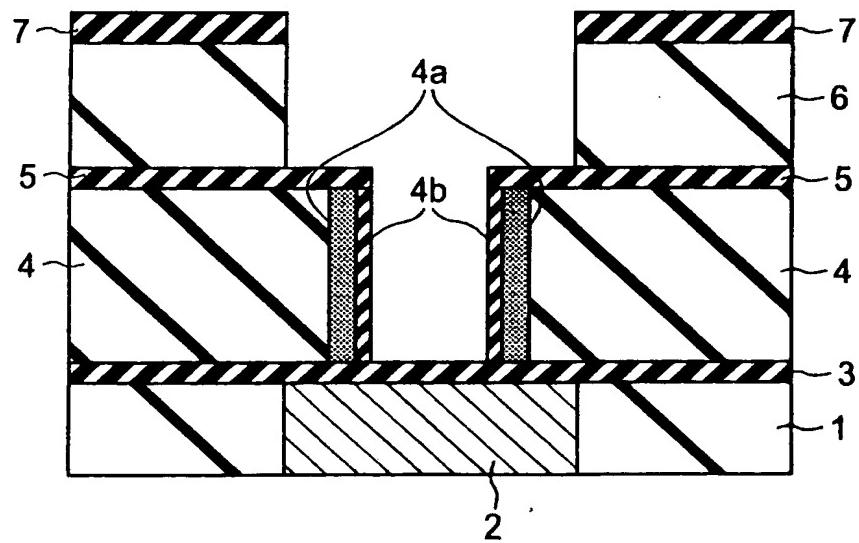


FIG. 18

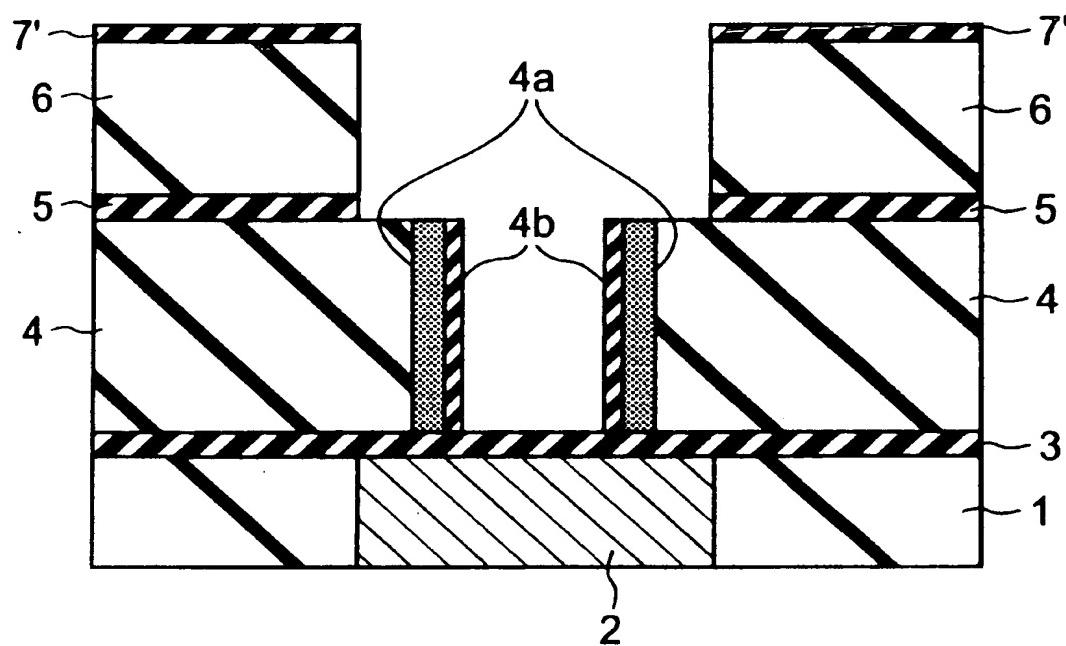


FIG. 19

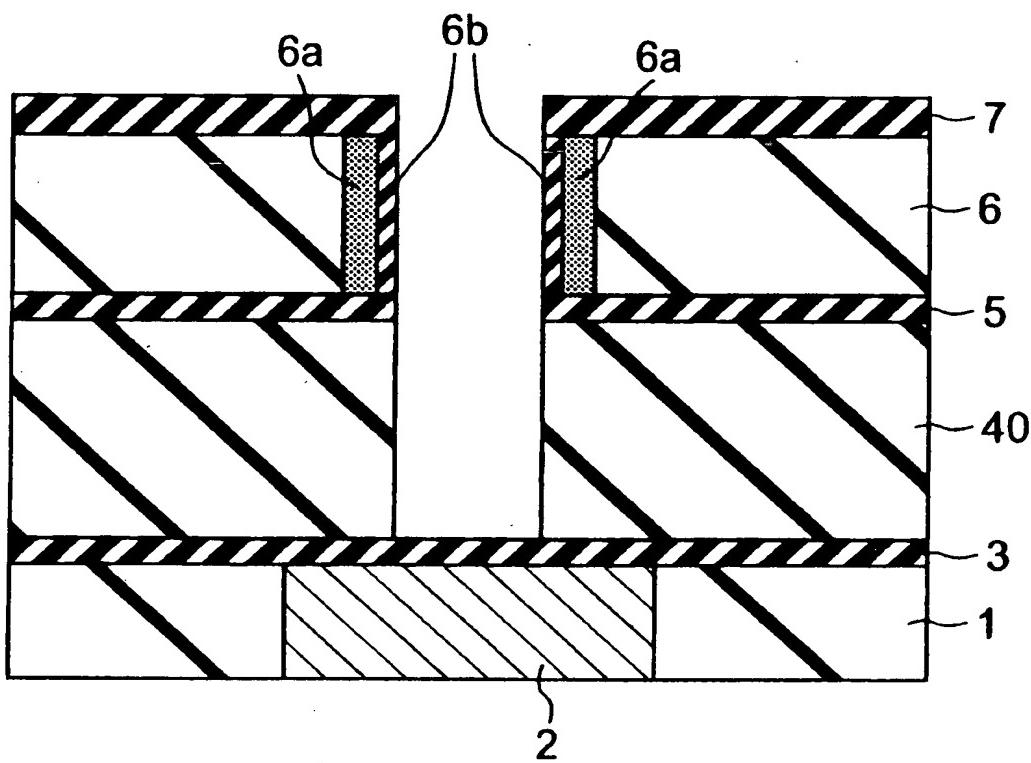


FIG. 20

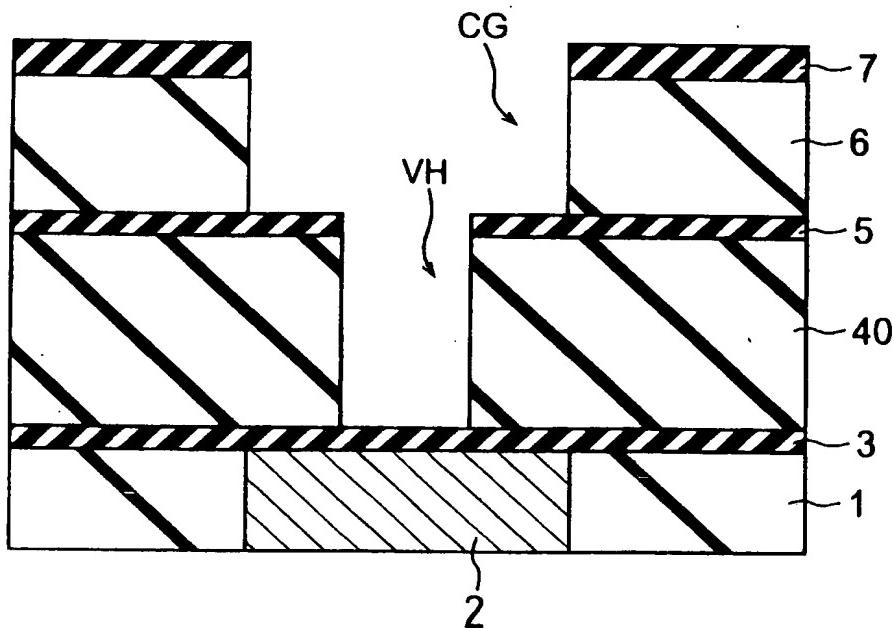
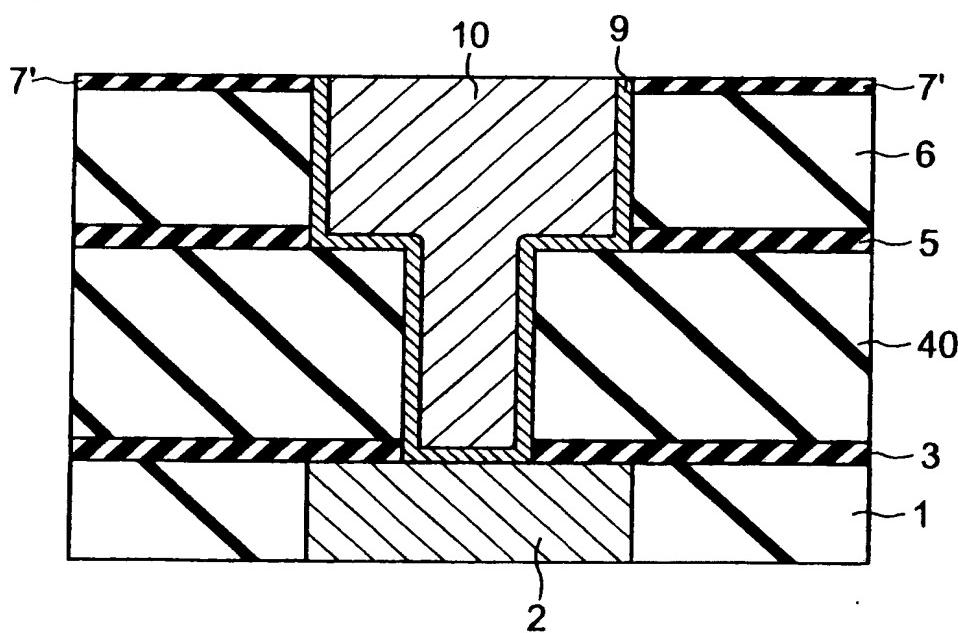


FIG. 21



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## Explanation of References

- 1.... FIRST INTERLAYER INSULATION FILM
- 2.... LOWER LEVEL WIRING LAYER
- 5 3, 5.... ETCHING STOPPER FILM
- 4.... SECOND INTERLAYER INSULATION FILM
- 4a.... SILYLATED LAYER, SILYLATED DIFFUSION LAYER OR MIXED LAYER
- 4b.... SILICON OXIDE LAYER (PROTECTIVE LAYER)
- 10 6.... THIRD INTERLAYER INSULATION FILM
- 6a.... SILYLATED LAYER, SILYLATED DIFFUSION LAYER OR MIXED LAYER
- 6b.... SILICON OXIDE LAYER (PROTECTIVE LAYER)
- 7, 7'.... HARD MASK FILM
- 15 8, 8a, 8b.... ORGANIC BASED ANTI-REFLECTION FILM (ORGANIC FILM)
- 9.... BARRIER METAL LAYER
- 10.... COPPER
- 40.... SECOND INTERLAYER INSULATION FILM
- 20 R.... RESIST
- VH.... VIA HOLE